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Investigation Title: Utilization of ERTS-A Data in Geological Evaluation

Regional Planning, Forest Management, and Water

Management in North Carolina

Proposal No. 18

GSFC ID No. UN 281

Contract No. NAS5⇒21732

Principal Investigator: Charles W. Welby

Date: December 15, 1972

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2. Land Use Survey and Mapping

A. Land Use Classification

Color additive viewing and simple visual examination of ERTS-1 imagery demonstrates its usefulness in first order land use classification in North Carolina. Comparison of pre-ERTS-1 maps of various vintages with ERTS-1 imagery shows the growth of North Carolina cities such as Winston-Salem, Raleigh, and Greensboro. The imagery will be very useful in updating regional patterns of urbanization (ERTS-1 Image No. 1045-15254) and in studying patterns of land use change. Spectral differences within the urbanized areas suggest that these differences may be utilized to map land use patterns within the cities. Quarries, many secondary roads, excavations of various sorts, and vegetational differences are apparent on the imagery and can be mapped, and the data put to appropriate use.

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UTILIZATION OF ERTS-A DATA IN GEOLOGICAL EVALUATION REGIONAL PLANNING, FOREST MANAGEMENT, AND WATER C.W. Welby (North Carolina State Univ.) CSCL 08G 15 Dec. 1972 1 p

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